

KaVo Hygiene

For total peace of mind –
The KaVo hygiene concept.



HYGIENE
made by KaVo
PROFESSIONAL
RELIABLE
SIMPLE



KaVo. Dental Excellence.

Hygiene meets efficiency – our concept of the future.

Hygiene in keeping with tradition.

Hygiene in the dental practice has always been a sensitive issue. At KaVo, we are aware of our responsibility and so, for decades, we have developed solutions that make working in dental practices safer and simpler for everyone.

In 1928, we were already able to set the standard in hygiene safety with the first sterilizable handpiece. Today, we offer a wide range of hygiene solutions and products for dental practices.

And since we are aware of the importance of the time factor and profitability in the operation of practices, we ensure in all of our developments that hygiene in your practice can be implemented not just in a safe, but also in a simple and efficient way.

Better for you, the patient and the practice team.

For us, hygiene already starts with the quality and processing of the materials. Therefore, high-quality, easy to clean surfaces with the smallest joint dimensions are the prerequisite for working safely and hygienically over the long-term.

In order to be able to offer you even more safety in the area of hygiene, we're developing intelligent solutions such as the anti-retraction valve or the exchangeable spray microfilter for our dental instruments. This results in a sustainable reduction of the risk of impurities.

Automated hygiene functions for the regular cleaning of water-carrying piping systems in treatment units effectively prevent contaminations and at the same time reduce the effort required to clean them. And for easy disinfecting, important parts of the equipment – such as the instrument tray, for example – may be removed without any effort. In order to keep dirt out of the treatment unit, all upper and lower parts of the enclosure are completely sealed off.

We like to think through the issue of hygiene in the dental practice. For you, for your patients and your entire team.

Only those knowing the risk are able to take measures against it.

Minimize the risk of infections through consistent hygiene.

	Risk In case of insufficient hygiene, there is a risk of cross infection from one patient to another – and the dentist and practice team are exposed to a considerable health risk. Because during and after the treatment of the patient, hand instruments, handpieces and treatment surface areas are contaminated with microbes.
	Germs 1. Bacteria associated with dental caries, periodontopathies, pulpitis, gangrene or abscesses. 2. Bacteria causing tonsillitis and lung infection, tuberculosis, diphtheria and other illnesses. 3. Viruses that may cause general infections such as the common cold and the flu, herpetic infections, aids or hepatitis B.
	Infection In the transmission of diseases, human beings and work equipment play an equally significant role as risk factors. Besides droplet infections and inoculations, blood, pus and saliva must be particularly considered as adhering to the interior and exterior of instruments.
	Prevention These health risks make it absolutely necessary to wear hygienic work clothes as well as hand, mouth and eye protection during each treatment. After each use, the instruments as well as the treatment unit must be effectively purified according to the statutory regulations. Equally self-evident is the use of disposable materials.



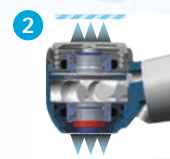
Optimum hygiene...

...we've got it covered.



1 Smooth surfaces – minimal joints.

All surfaces are free of joints and thus easy to clean.



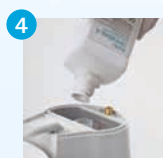
2 Anti-retraction system for MASTERtorque.

Absolutely no retractive suction due to Direct Stop Technology. Optimum value retention, since contamination cannot penetrate into the head housing. Best specification for effective reprocessing and improved hygiene.



3 Sterilizable instruments and turbines for more than 30 years.

Protection against cross infections for everyone involved due to easy to clean and sterilizable surfaces.



4 Safe permanent germ reduction.

OXYGENAL 6 prevents the spread of microorganisms in your treatment system during normal operations.



5 Additional intensive germ reduction.

The impeccable quality of the cooling and rinsing fluids even after extended downtimes is guaranteed through the intensive germ reduction.



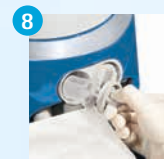
6 Disinfection of the suction equipment.

Fully automatic cleaning of the suction and drainage systems as well as disinfection with an automatic dosage of DEKASEPTOL Gel.



7 Removable parts.

Handles, silicone mats, spittoon bowls, handpiece trays and swing-arm clamps may be easily removed and certain parts may also be sterilized.



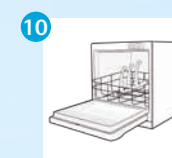
8 Hygiene filters.

The easy-to-clean suction filter system saves your staff valuable time during hygiene procedures. The suction filters can be easily and safely exchanged.



9 MULTIflex couplings.

The integrated non-return valve prevents any back suction of spray water immediately after use has ended.



10 Cleaning and disinfection.

To ensure many years of optimal automated cleaning and disinfection, KaVo handpieces are designed for washer disinfectors (RDG) in accordance with the DIN 15883 standard. These handpieces are labelled with the washer disinfection symbol.



11 Servicing.

Optimal servicing of up to 4 dental handpieces in just one minute. High efficiency, thanks to being perfectly adapted to daily practice requirements. The chuck servicing program also services the inside of the chuck automatically.



12 Sterilization.

After an initial service with KaVo products, the 135 °C sterilization in the autoclave does not have any negative effect on the quality and service life of the instruments.

Definitely ready for use...

...thanks to intelligent hygiene functions.

Hygiene is a natural result.

Thanks to the integrated hygiene functions within KaVo treatment units, you may rely on a particularly safe and efficient cleaning and disinfection. The in part fully automated processes provide for time savings; the standardized workflows permanent functional reliability of your treatment unit.



Fully automated hygiene.

OXYmat and DEKAmat are integrated into the unit body of the treatment units ESTETICA E70 or E80. This means less manual work for your assistants.



Permanent germ reduction.

OXYGENAL 6 prevents the spread of micro-organisms in your treatment system during normal operations.



Intensive germ reduction

The impeccable quality of the cooling and rinsing fluids even after extended downtimes is guaranteed through the intensive germ reduction.



DVGW certified water block.

The water block with free water inlet meets requirements of the DVGW and prevents possible reflux contamination in your supply line.



Instrument rinsing function according to RKI.

Automatic rinsing program for all water-carrying pipes. Activate the variably adjustable rinse time through the push of a button.



Specially designed water hoses.

The selection of special materials for water supply hoses reduces or decreases the formation of biofilms.



Removable parts.

Handles, silicone mats, spittoon bowls, instrument trays and swing-arm clamps may be easily removed and disinfected.



Smooth surfaces.

All surfaces are free of joints and thus easy to clean.



Cleaning and disinfection of the suction equipment.

Fully automatic cleaning of the suction and drainage system as well as disinfection with an automatic dosage of DEKASEPTOL Gel (manually in the ESTETICA E50 and PRIMUS 1058).



Contact-free operation for perfect hygiene.

With the foot control, hygiene is a natural result.

To prevent cross contamination, there is hardly a more efficient method than to avoid contact. That is why your patient chair and the instruments of your KaVo treatment unit can be fully controlled via the foot control. You do not have to touch the dentist element during treatment. The wireless foot control does not even have cables that would need cleaning.



Setting the standard in hygiene efficiency – the 5-star light for your dental practice.

Not only does the KaVoLUX 540 LED provide natural white light of the highest quality, it is also highly suitable for promoting efficient hygiene in the dental practice due to contact-free operation. Even the COMPOsave mode of the KaVoLUX 540 LED may be switched on and off easily without any contact, if required. The closed equipment housing with smooth surfaces and the detachable handles provide even more hygienic benefits.



Simply hygienic: detachable handles and smooth surfaces allow for rapid and thorough disinfection. The touch-free operation ensures minimum risk of cross contamination and therefore maximum safety for your patients.

Perfectly tailored to KaVo treatment units – DEKASEPTOL and OXYGENAL 6.

KaVo DEKASEPTOL Gel – the disinfectant and cleanser for dental suction systems.

KaVo DEKASEPTOL Gel is supplied pre-mixed and ready for use. It has a cleaning, deodorizing and disinfecting effect.

Simple: Thanks to the dosage dispenser, mixing errors, skin contact with the disinfectant or soiled work surfaces are a thing of the past.

Fast: Less time needed by the assistant for cleaning and disinfection of the suction system.

Effective: DEKASEPTOL completely wetted suction hoses and systems and adheres to critical spots instead of merely passing through.

Safe: DEKASEPTOL is bactericidal, fungicidal, limited virucidal, tuberculocidal, effective against HBV and HIV and ecologically harmless since it is biodegradable according to OECD regulations (listed by DGHM-VAH).



OXYGENAL 6 – Protect lines effectively from contaminated water.

OXYGENAL 6 consists of hydrogen peroxide, whose effect is synergetically reinforced by silver ions. Besides numerous expert opinions affirming the effectiveness of OXYGENAL 6, it is particularly well compatible with materials and does not contaminate waste water since the silver concentration is toxicologically not relevant.

In application concentration, OXYGENAL 6 does not pose a hazard to patients and personnel, decomposing into water and oxygen without any residues.



Take control of hygiene safety.

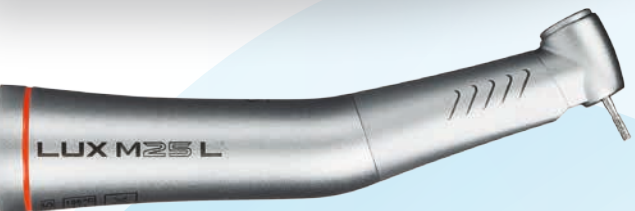
Hygiene that starts during development.

All KaVo instruments are subject to the same principle: reliable health protection requires safe hygiene – it begins with the quality and processing of the products and continues via innovative functions all the way to the simplification of cleaning and care processes.

Easy-to-clean Plasmatech surfaces, anti-retraction valves and spray microfilters all contribute to the protection of everyone involved against cross contaminations – Carefully considered protection, throughout the range of KaVo handpieces.



MASTERtorque™
with Direct Stop Technology



MASTERmatic M25L contra-angle handpiece
(transmission ratio 1:5)



MASTERmatic LUX M10 L straight handpiece
(transmission ratio 1:1)



MASTERmatic LUX shank M20L
(transmission ratio 1:1)



SONICflex quick 2008 L

Simply a clean solution – down to every detail.

Innovative solutions for safe hygiene.

1

2

3

4

5

Exclusive for MASTERtorque™ : Direct Stop Technology.

- The dental drill stopping time is reduced to less than one second and thus lowers the risk of injury.
- For safe hygiene and permanent value retention, the back flow of aerosols or particles is effectively prevented thanks to the Direct Stop Technology.

Anti-retraction system for MASTERtorque.

Double protection prevents ingress of contamination into the head housing through

- Anti-retraction valve of MULTIflex couplings and motors.
- Absolutely no retractive suction due to Direct Stop Technology of the MASTERtorque. Thus cross contamination can be effectively be prevented and you obtain an optimum value retention.

Sterilizable Plasmatech coating.

- Easy and thoroughly to clean as well as completely sterilizable while simultaneously providing perfect grip.

Minimal joints.

- Easy to clean surfaces with minimal joints for a safe and efficient hygiene.

High-quality materials.

- High-quality materials and the most precise processing guarantee risk-free sterilizability.

1

2

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4

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The cost-efficient solution for optimum care and longevity.

Handpiece servicing by QUATTROcare PLUS.

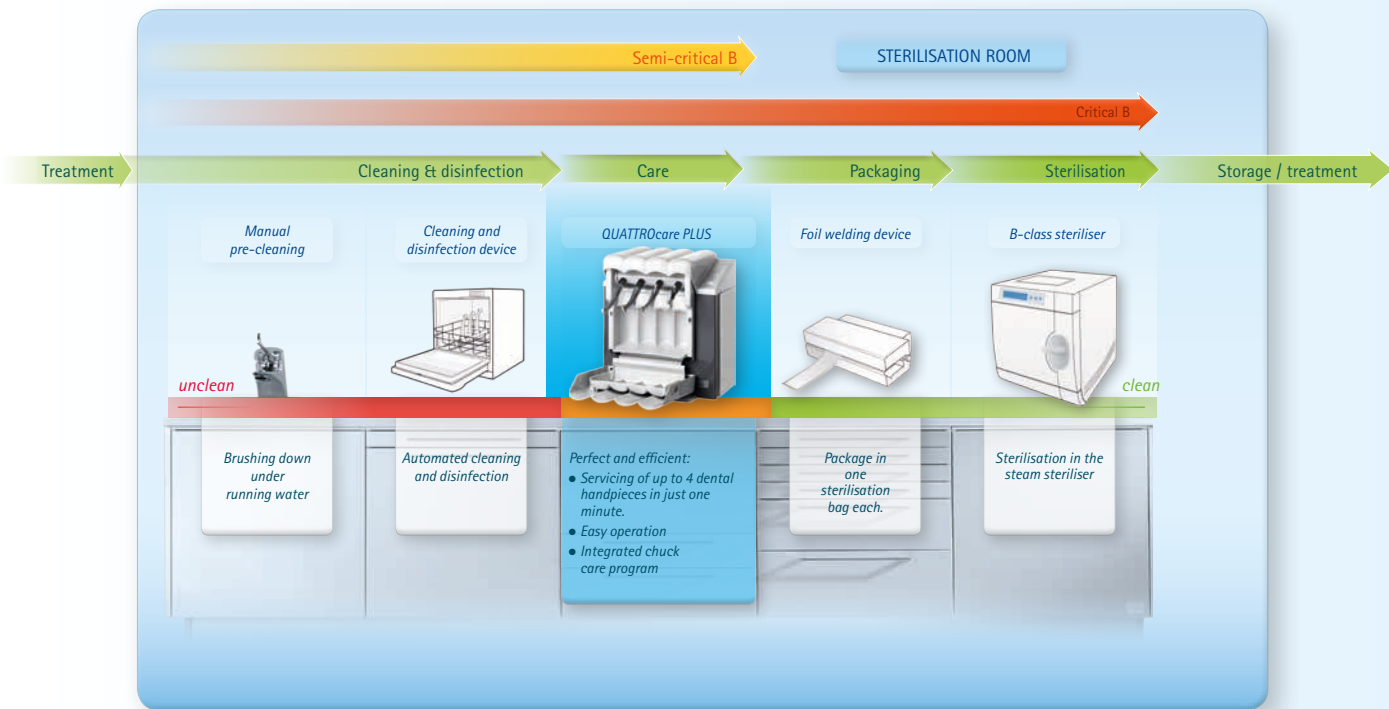
Longevity is not only a question of product quality, but also of regular, thorough maintenance. Thanks to the KaVo QUATTROcare maintenance system, KaVo sets world-wide standards of efficiency for handpiece care. The innovative KaVo QUATTROcare PLUS maintenance system offers incomparable thoroughness, economy and ease-of-use. Perfect for all your handpieces in daily use.

KaVo QUATTROcare PLUS is equipped with the innovative purging function as standard. The handpiece transmission and spray channels are additionally supplied with compressed air and purged to remove any residual oil or debris to ensure that all the KaVo handpieces receive truly comprehensive care.

Integrated chuck care program.

The weekly cleaning and care of handpiece chucks maintains their gripping force, reliability and long service-life.

RKI-compliant hygiene procedure with KaVo QUATTROcare PLUS



For a clean and safe treatment. The treatment unit hygiene concept.

Professional hygiene and safety is easy.

The KaVo treatment units may be reliably cleaned and disinfected within the course of simple worksteps. The following service and cleaning schedule for KaVo treatment units informs you about the hygiene measures that need to be executed on a daily basis. Because consistent hygiene protects you, your patients and your dental practice team against infection risks.



In the morning.

- Rinsing of the instrument hoses (interior) and water supply systems
- Rinsing of suction hoses and suction systems
- Cleaning of the suction system and the spittoon bowl



After treatment.

- Rinsing of suction hoses, the suction system and the spittoon bowl
- Cleaning and disinfection of device surfaces, seats, lights and the spittoon bowl



In the evening.

- Control filter, if required change filter
- Cleaning and disinfection of device surfaces, seats, lights and the spittoon bowl
- Rinsing of the instrument hoses and water supply systems



Weekly cleaning.

- Execute intensive germ reduction
- Checking the return air filter of the turbine
- Cleaning and disinfecting the instrument holders



According to need

- Disinfect and sterilize the silicone trays
- Disinfecting the tumbler filler and tumbler holder
- Cleaning and disinfecting the instrument holders
- Check the amalgam separator




The servicing and cleaning plan includes only the essential operating functions. They do not replace the instructions for use included in the delivery. Strict compliance with the instructions is required to prevent malfunctions and damages.

You can find additional information at www.kavo.com.


RKI-compliant reprocessing of KaVo handpieces

1. Preparatory steps




1

To minimise the risk of infection, always wear protective gloves.




2

Remove the bur from the motor coupling or the chucking system.




3

Remove the handpiece from the motor coupling or the turbine from the quick coupling.



4

Wipe the outside with an approved disinfectant right after the end of the treatment.

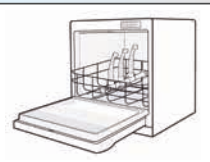

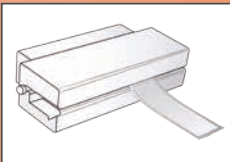

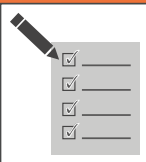


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Instruments with interchangeable heads: remove the heads from the reducing shank for separate servicing.








Occupational safety

2a. Work Steps – Automated Procedure

1. External and internal cleaning/ disinfection	2. Care	3. Packaging	4. Sterilisation	5. Documentation
 <p>KaVo recommends washer disinfectors from Miele in accordance with EN ISO 15883-1 that are operated with alkaline cleaning agents. The validations were conducted with the VARIO-TD program, the cleaning agent neodisher® MediClean and the neutralisation agent neodisher® Z.</p> <ul style="list-style-type: none">• Brush off any residual cement, composite or blood under running tap water• To prevent damage to the KaVo medical device from residual liquid, the interior and the exterior of the medical device must be dried• Remove any residual liquids from the interior and exterior of the medical device using compressed air• Oil care immediately after the drying	 <p>KaVo QUATTROcare PLUS 2124: Care device for perfect and efficient care.</p> <ul style="list-style-type: none">• Recondition the medical product after every application, i.e. after every cleaning, disinfection and prior to every sterilisation• Recondition the head and base of handpieces with changeable heads separately• Reprocessed medical devices must be stored in a dry, dark, cool room, protected from germs (as far as possible) and dust	 <p>The sterilization bag must be large enough for the hand-piece so that the packaging is not stretched.</p> <ul style="list-style-type: none">• Seal the medical device separately in a sterile pack	 <p>KaVo products bearing the sterilisation symbol can be sterilised in steam sterilisers (autoclaves) according to EN 13060/ISO 17665-1 and have a maximum temperature stability of up to 138°C. KaVo MULTiflex couplings cannot be sterilised.</p> <p>Sterilisation parameters: steriliser with triple pre-vacuum: at least 3 minutes at 134°C - 1°C / + 4°C (observe the application area of the steriliser and the KaVo instructions for use)</p> <ul style="list-style-type: none">• Remove contra-angle handpieces and turbines immediately after completion of the sterilisation cycle from the steriliser	 <p>The process is recorded in writing as follows:</p> <ul style="list-style-type: none">• The correctness of the process sequence must be tested• The packaging must be subjected to a visual inspection• It must be ensured that the sterile goods are correctly marked• Process indicators must exhibit a complete colour change• The correct batch documentation is the prerequisite for the release• The release of the sterile goods must be documented

SEMI-CRITICAL B

2b. Work Steps – Manual Procedure

1. Cleaning – external	2. Cleaning – internal	3. Disinfection – external	4. Disinfection – internal	5. Care	6. Documentation	
 <p>30° 30 sec.</p> <p>Accessories required: Tap water 30° C ± 5°C and a medium-hard toothbrush</p> <ul style="list-style-type: none">• Brush the medical device under running tap water	 <p>3 x 2 sec. + 1 min.</p> <p>KaVo CLEANspray 2110: Validated manual interior cleaning (residual protein removal)</p> <ul style="list-style-type: none">• Cover the medical device with the KaVo Cleanpac bag• Position the medical device on the corresponding servicing adapter• Hold the can vertically• Press the spray button 3x for 2 seconds each time and allow to take effect for 1 minute	 <p>3 – 5 sec.</p> <p>KaVo DRYspray 2117: Drying the air, water and gear unit ducts</p> <ul style="list-style-type: none">• Cover the medical device with the KaVo Cleanpac bag• Position the medical device on the corresponding servicing adapter• Hold the can vertically• Press the spray key 1x for 3-5 seconds each time	 <ul style="list-style-type: none">• Spray the disinfectant onto a cloth• Wipe down the medical device and allow the disinfectant to act according to the instructions of the disinfectant manufacturer• Follow the instructions for use of the disinfectant• KaVo recommends the following disinfectants based on the compatibility of the materials:<ul style="list-style-type: none">- Mikrozid AF made by Schülke & Mayr (Liquid or cloths)- FD 322 made by Dürr	 <ul style="list-style-type: none">• Cover the medical device with the KaVo Cleanpac bag• Position the medical device on the corresponding servicing adapter• Carry out the disinfection according to the instructions of the respective manufacturer• Oil care immediately after the internal disinfection <p>KaVo recommends the following disinfectant based on the compatibility of the materials: - WL-cid / ALPRO</p>	 <p>1 – 2 sec.</p> <p>KaVo Spray 2112 A Care spray for optimum care.</p> <ul style="list-style-type: none">• Recondition the medical product after every application, i.e. after every clean, disinfection and prior to every sterilisation• Cover the medical device with the Cleanpac bag• Plug the medical device onto the servicing coupling• Press the spray button for 1-2 seconds• Reprocessed medical devices must be stored in a dry, dark, cool room, protected from germs (as far as possible) and dust <p>Separate head care For optimum care, remove the heads from the reducing shank and treat for 1 second with a corresponding attachment (this is generally not possible with speed-increasing contra-angles and turbines).</p>	 <p>The process is recorded in writing as follows:</p> <ul style="list-style-type: none">• The correctness of the process sequence must be tested• The packaging must be subjected to a visual inspection• It must be ensured that the sterile goods are correctly marked• Process indicators must exhibit a complete colour change• The correct batch documentation is the prerequisite for the release• The release of the sterile goods must be documented

KaVo Cleanpac bags offer optimum infection protection for the clinical team.



Hazard due to incomplete disinfection
The disinfection procedures used must be verified to have bactericidal, fungicidal and virucidal effects. If the disinfectants used do not offer the prescribed characteristics, the process must be concluded with thermal disinfection of devices in unpacked condition in a steriliser.

Note:

- The current regulations on validating the devices and processes locally must be followed and be instigated and validated by the user
- Please also comply with the detailed information in the instructions for use of the medical devices



Only KaVo medical devices marked with the thermal disinfection (1) or sterilisation symbol (2) may be processed in the washer disinfectant (RDG) or sterilised in the steam steriliser.



Do not place KaVo instruments and turbines in disinfectant solutions or clean them in ultrasonic devices.



Mechanical chuck servicing
KaVo recommends cleaning and servicing the chucking system once every week. Position the tip of the spray nipple in the opening of the chuck, and apply the spray



Manual chuck servicing
KaVo recommends cleaning and servicing the chucking system once every week. Position the tip of the spray nipple in the opening of the chuck, and apply the spray



Putting the products back into clinical use
Directly prior to providing treatment, place instruments and turbines onto the motor or MULTiflex coupling. Activate handpiece and let it run for a few seconds. Wipe off any excess lubrication oil that may exit the instrument.



Please note: Semi-critical B (automated procedure) is also subject to a documentation obligation (see item 5/2a)



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